

SLB
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concl'd

positioning the source assembly and the detector assembly in a first position for the first mode of operation;

B1
concl'd

selecting a second mode of operation;

positioning the source assembly and the detector assembly for the second mode of operation in a second position different from the first position; and

generating an image of the object for each determined mode of operation.

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4. (once amended) An imaging system for generating an image of an object, said imaging system configured to operate in a plurality of modes of operation including at least three modes and comprising:

a source assembly comprising a movable x-ray source configured to emit x-ray signals;

a detector assembly comprising a movable detector;

a positioning means for positioning said source assembly and said detector assembly relative to the object, said source assembly movably coupled to said positioning means and said detector assembly movably coupled to said positioning means; and

a controller enabling an operator to selectively operate said system in a plurality of modes.

B3

5. (twice amended) A system in accordance with Claim 4 wherein said plurality of modes comprises at least one of a computed tomography volume mode, an x-ray fluoro mode, and a tomosynthesis mode.

B1
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18. (once amended) An imaging system for generating an image of an object, said imaging system comprising a base, a positioning means movably coupled to said base, an x-ray